

Dissolved oxygen (D.O.) by Membrane Electrode Method		SM 4500-O G- 2001 (2011)			
<i>ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020.</i>					
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
If samples are collected from a line under pressure, does the sampler avoid the formation of bubbles, allow the bottle to overflow two or three times its volume, and stopper it so that no air bubbles are entrained?	4500-O G.1.c, 4500-O B.3				
If samples are collected, are samples analyzed within 15 minutes of collection?	40 CFR 136 Table li				
Is the membrane changed and calibrated frequently?	4500-O G.1.b				
Does the analyst take care in changing the membrane to avoid contamination of the sensing element and also trapping of minute air bubbles under the membrane?	4500-O G.3.b				
Is the meter calibrated frequently, following manufacturer's calibration procedure exactly?	4500-O G.3.a				
Is there sufficient sample flow across the membrane surface to overcome erratic response?	4500-O G.3.b				
Does the analyst follow all precautions recommended by the manufacturer to ensure acceptable results? [This could include factors such as meter stabilization, electrode storage, and type of electrode filling solution used.]	4500-O G.3.b				
For SM 4500-O G-2011, was a zero check performed with a zero oxygen sample (add excess sodium sulfite, Na ₂ SO ₃ , and a trace of Cobalt Chloride, CoCl ₂ , to bring DO down to zero.)?	SM 22 nd Table 4020: I Footnote 6 (4500-O G-2011 3.b)				
Notes/ Comments:					